


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER GORDON CREEK ST NE-7-14-8							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED							
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME							
6. NAME OF OPERATOR GORDON CREEK, LLC						7. OPERATOR PHONE 403 453-1608							
8. ADDRESS OF OPERATOR 1179 E Main #345, Price, UT, 84501						9. OPERATOR E-MAIL rironside@thunderbirdenergy.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 46537			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee') State of Utah Division of Wildlife Resources						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-538-4866							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1594 W. North Temple, Suite 2110, Salt Lake City, UT 84114						16. SURFACE OWNER E-MAIL (if box 12 = 'fee') theresemeyer@utah.gov							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		2081 FNL 543 FEL		SENE		7		14.0 S		8.0 E		S	
Top of Uppermost Producing Zone		2081 FNL 543 FEL		SENE		7		14.0 S		8.0 E		S	
At Total Depth		2081 FNL 543 FEL		SENE		7		14.0 S		8.0 E		S	
21. COUNTY CARBON			22. DISTANCE TO NEAREST LEASE LINE (Feet) 543			23. NUMBER OF ACRES IN DRILLING UNIT 160							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4500			26. PROPOSED DEPTH MD: 3669 TVD: 3669							
27. ELEVATION - GROUND LEVEL 7237			28. BOND NUMBER RLB0010790			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 91-5193							
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight			
SURF	11	8.625	0 - 450	24.0	J-55 ST&C	8.7	Class G	212	1.42	15.8			
PROD	7.875	5.5	0 - 3669	17.0	N-80 LT&C	10.0	Class G	319	2.69	10.7			
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Barry Brumwell				TITLE Vice President-Operations				PHONE 403 453-1608					
SIGNATURE				DATE 09/19/2011				EMAIL bbrumwell@thunderbirdenergy.com					
API NUMBER ASSIGNED 43007502410000				APPROVAL <div style="text-align: center;">  Permit Manager </div>									

RECEIVED: October 25, 2011

DRILLING PLAN and PROGRAM

Attached to UDOGM Form 3

GORDON CREEK, LLC.

NE-7-14-8

2080.53' FNL & 542.53' FEL

SE/4 of NE/4 of Section 7-14S-8E

Carbon County, Utah

**** NOTE: AN APD FOR THIS WELL WAS APPLIED FOR AND APPROVED ON APRIL 19th, 2007 AND GRANTED AN API # OF 43-007-31231. THE LOCATION WAS CONSTRUCTED BUT THE WELL WAS NEVER DRILLED AND THAT APPLICATION HAS EXPIRED. THIS APPLICATION IS AN UPDATE TO THE EXPIRED APPLICATION.**

1. SURFACE GEOLOGIC FORMATION

Emery Sandstone Member of the Mancos Shale

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Mancos Blue Gate Shale top:	1,295' KB
Lower Blue Gate Bentonite Marker:	3,064' KB
Ferron SS:	3,199' KB

3. PROJECTED GAS & H₂O ZONES

While no groundwater is expected to be encountered, groundwater *may* be encountered within the Emery Sandstone Member of the Mancos Shale. Any water encountered will be reported on a Form 7 "Report of Water Encountered During Drilling". All indications of usable water will be reported.

Casing & cementing will be done to protect potentially productive hydrocarbons, lost circulation zones, abnormal pressure zones and prospectively valuable mineral deposits.

Surface casing will be tested to 500 psi and the Production casing will be tested to 1,500 psi, with a minimum of 1 psi/ft of the last casing string setting depth.

4. PROPOSED CASING AND CEMENTING PROGRAMS

Refer to EXHIBIT "A" for casing design information

A. CASING PROGRAM

HOLE SIZE (in)	CASING SIZE (in)	WEIGHT (#/ft)	GRADE	JOINT	DEPTH SET (ft)
17	12 ³ / ₄	40.5	H-40	ST&C	0 – 40
11	8 ⁵ / ₈	24.00	J-55	ST&C	0 – 450
7 ⁷ / ₈	5 ¹ / ₂	17.00	N-80	LT&C	0 – 3,669

B. CEMENTING PROGRAM

The 8 ⁵/₈" surface casing will be set and cemented full length with approximately 212 sacks of 0-1-0 Class "G" cement + 2% CaCl₂ + 0.25 #/sk of cellophane flakes mixed at 15.84 ppg (yield = 1.142 ft³/sk); volume based on nominal hole size + 100% excess. The cement will be circulated back to surface. In the event that the cement is not circulated back to surface, a 1" top out job will be performed with 0-1-0 Class "G" cement + 2% CaCl₂ + 0.25 #/sk of cellophane flakes mixed at 15.84 ppg (yield = 1.142 ft³/sk).

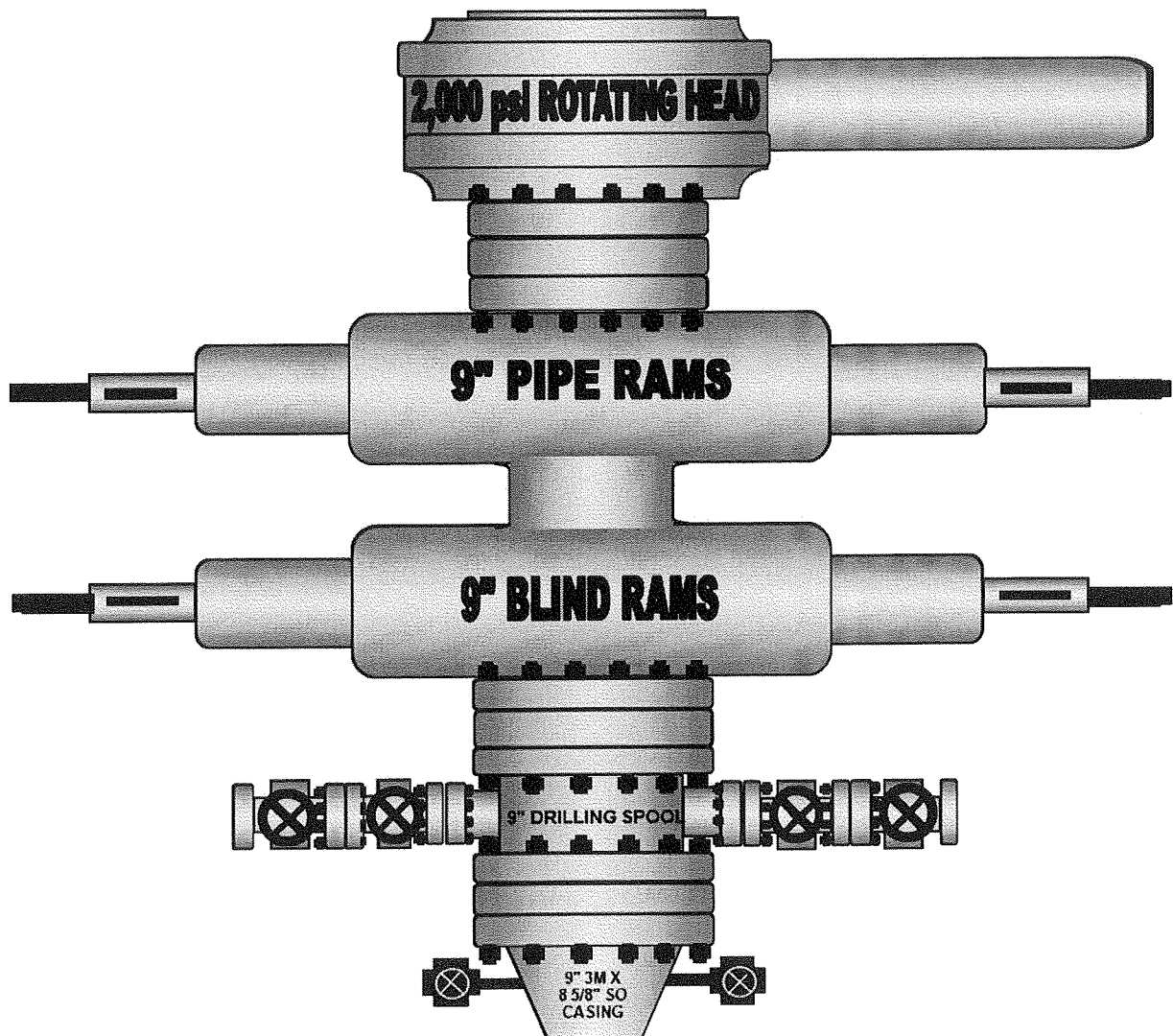
The 5 ¹/₂" production casing will be set and cemented full length using 319 sx of 0-1-0 "G" Light Weight cement incorporating 42% "SuperBall" centrospheres to lighten the cement density + 3% NaCl, 0.3% Air-out, 1.5% SFI-300, 0.2% SCR-2. The cement will be mixed at 10.7 ppg (yield = 2.69 ft³/sk); volume based on nominal hole size + 35% excess. The cement will be circulated back to surface.

THE FOLLOWING SHALL BE ENTERED INTO THE DRILLER'S LOG:

- I. Blowout preventer pressure tests, including test pressures and results;
- II. Blowout preventer tests for proper functioning;
- III. Blowout prevention drills conducted;
- IV. Casing run, including size, grade, weight, and depth set;
- V. How the pipe was cemented, including amount of cement, type, whether cement was circulated back to surface, location of the cementing tools, etc.;
- VI. Waiting on cement time for each casing string;
- VII. Casing pressure tests after cementing, including test pressures and results.

5. THE OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Below is a schematic diagram of the blowout preventer equipment requirements for this drilling operation. A 9' X 3,000 psi double gate BOP will be used with a 2,000 psi Rotating Head utilized for air drilling operations. ALL BOPE will be pressure tested to the required operating pressures of each component. All tests will be recorded in the Driller's Report Book. The physical operation of each component of the BOP's will be checked on each trip.



6. THE TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATING FLUIDS / MUDS

0' – 450'	11" Surface Hole	Drill with air, will mud-up if necessary.
450' – TMD	7 ⁷ / ₈ " Main Hole	Drill with air, 500 psi @ 1500-2300 ft ³ /min

Will "mud up" at Total Depth to run logs and casing. Will mud up sooner if hole conditions dictate. It is anticipated that drilling fluid densities of 8.3 – 8.7 #/gal will be utilized when "mudded up".

7. THE TESTING, LOGGING AND CORING PROGRAMS

Open hole logs consisting of a CNL-LDT-GR-GAL will be run from above the Blue Gate Shale to TMD. A DIL-GR-SP log will be run from TMD to surface.

ANY ANTICIPATED ABNORMAL PRESSURES or TEMPURATURES

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is approximately 1250 psi maximum. No hydrogen sulfide or other hazardous gases or fluids have been found, reported or are known to exist at these depths in the area.

8. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

The well will be drilled between late September and the end of November, 2011. Verbal and/or written notifications listed below shall be submitted in accordance with instructions from the Division of Oil, Gas & Mining:

- a) prior to beginning construction;
- b) prior to spudding;
- c) prior to running any casing or BOP tests;
- d) prior to plugging the well, for verbal plugging instructions.

Spills, blowouts, fires, leaks, accidents or other unusual occurrences shall IMMEDIATELY be reported to the Division of Oil, Gas & Mining.

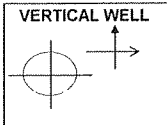
THUNDERBIRD
ENERGY

DRILLED WITH AIR

WORKING INTEREST: 100%

RIG:

DRILL DAYS BELOW SURFACE CASING SHOE: 5

Survey Grd. Ele: 7,236.7'
Est. KB Elev: 7,249.0'
12.3' KB8.625"
Casing
Set @ ~450'BOP'S
9", 3000 #
CASING
BOWL11"
Surface
Hole7.875"
Main
Hole5.500"
CASING
SET AT
3,669'

TOPS ft TVD

Emery Fm. Sfc.

SURFACE CASING 450

BASE OF GROUNDWATER TBD

MUD UP ONLY IF WATER
INFLUX OCCURS OR TIGHT
HOLE CONDITIONS OCCURBegin taking samples
on Geologists orders

Blue Gate Shale Mbr ** 1,295'

Lower Bluegate
Bentonite Marker 3,064'FERRON SS/COAL * 3,199'
(750 psi)
AIR DRILL THROUGH
ZONE IF POSSIBLE

Tununk Shale 3,611'

* PRIMARY ZONE OF INT.
** SECONDARY ZONE

TD 3,669'

EMERGENCY PLANNING ZONE SUMMARY

SWEET WELL: THUNDERBIRD'S CORPORATE EMERGENCY RESPONSE PLAN
APPLIES

CASING DESIGN

	Interval (ft)	O.D. (inches)	#/ft	Grade	Thread	Burst (psi)	Collapse (psi)	Opt. Torque (ft lbs)
Surface:	0 - 450	8 5/8	24	J-55	ST&C	2,950	1,370	2,440
Main:	0 - 3,669'	5 1/2	17	N-80	LT&C	7,740	6,280	3,480

*ENSURE THAT MARKER JOINTS ARE PLACED IN THE CASING STRING OPPOSITE ANY PAY ZONE

TARGET: FERRON SANDSTONE/COAL; CASING TO BE CUT 16" ABOVE CASING BOWL

CEMENTING PROGRAM - Primary - Single Stage

	Bit Size (inches)	Cement	Additives	Yield (ft ³ /sk)	Volume (sx)	% Excess	Cmt Top (ft)	Density (#/gal)
Surface:	11	0-1-0 "G"	2% CaCl ₂ + Cellophane flakes	1.142	212.0	100	SFC	15.84
Main:	7 7/8	Superball 10.7	3% NaCl, 0.3% Air-out, 42% Superball, 1.5% SF-300, 0.2% SCR-2	2.69	319.0	35	SFC	10.70

DRILLING FLUIDS

	Interval	Type	
Surface:	0 - 450	Water	Drill with water, mud up with gel chem if water influx occurs.
		Gel Chemical	Condition mud thoroughly prior to POOH to run/cement casing
Main:	450 - 3,150	AIR	MUD UP ONLY if water influx occurs or if TIGHT HOLE
	3,150-3,669	Gel Chemical	conditions become prevailant. MUD UP at ~ 3,150' to TD.

11" SURFACE HOLE

- Spud with an approved water well/surface casing rig and drill to surface TD of about 450 ft. Survey every 100'. Ensure that the surface hole deviation does not exceed 3 degrees. Set surface casing at least 50' below any water influx zone.

- NOTE: MUD UP with Gel Chemical mud system immediately if water influx becomes problematic. Refer to the Mud Program and the Cementing Program for further information. Move rig off of location once surface casing is set.

7 7/8" MAIN HOLE: VERTICAL HOLE

- Move on conventional drilling rig and drill out with and AIR DRILL as far as possible with air. Survey every 300'. Ensure that deviation does not exceed 3 degrees. Notify Calgary operations immediately if a 3 degree deviation is exceeded.

- TIGHT HOLE is possible on connections. REAM HOLE at first indication of tight hole and attempt to continue to air drill.

- COAL/SHALE SEAMS can occur in the wellbore which may be faulted and unconsolidated resulting in sloughing hole conditions.

- H₂S WILL NOT be encountered.

- MUD UP ONLY if water influx occurs OR if tight hole conditions become prevailant.

- OVER PRESSURE: Generally, all zones in the wellbore should be underpressured (below normal water gradient) or have normal pressure gradients.

- LOST CIRCULATION should not occur.

- FERRON SS/COAL PENETRATION - ATTEMPT TO AIR DRILL THROUGH THE FERRON ZONE. WATER may be encountered upon penetration. Ensure good hole conditions are prevalent to penetrating the FERRON.

- MUD UP - switch to a Gel Chem drilling fluid system at ~3,150' OR if water/tight hole problems occur.

- Mud Check - prior to POOH for logging, condition the mud and check mud properties with mudman. DO NOT POOH until the wellbore is circulating free of cuttings and the mud properties are optimal for logging.

NOTE: Ensure the well is cemented to surface or that an abandonment program has been approved by THUNDERBIRD.

SAMPLE REQUIREMENTS/ EVALUATION

T-BIRD	Begin taking 2 sets of samples every 10 feet at 2,580' to TD
GOVT:	As per regulations
Detection:	Gas detection/ PASON Mud Log as per Geologist's request.
Cores:	No coring
DST:	No DST's

LOGGING PROGRAM - NUMBER OF COPIES OF EACH LOG:

	# of copies
DIL-GR-SP T.D. to surface casing	4
CNL-LDT-GR-GAL T.D. to 2,580'	4

Run a multi-arm caliper log to ensure correct calculation for cement volumes on casing or plugs.

EXHIBIT "A"

CASING DESIGN
GORDON CREEK ST NE-7-14-8
PROJECTED TD: 3,669' KB

SURFACE CASING (0' – 450')

Diameter	8 ⁵ / ₈ "
Interval	450' to Surface
Weight	24 #/ft
Grade	J-55
Coupling	ST&C

Burst Design

The recommended practice is to base on the burst rating of the casing string in psi to be at least numerically equal to 0.225 psi/ft times the setting depth in feet of the next casing string. The rating chosen was also intended to match the BOPE pressure rating and exceed the highest possible surface pressure of approximately 825 psig.

Burst required =	0.225 x 3,669	825 psig
Burst rating of casing string:	2,950 psi	
Safety factor =	2,950 psi / 825 psi =	3.58

Collapse Design

Collapse pressure is negligible on this surface string.

Tension Design

String weight in air	10,800 #
Tensile strength of joint	244,000 lbf
Safety factor of joint	22.6

PRODUCTION CASING (0' – 3,669')

Diameter	5 ½"
Interval	3,669' to surface
Weight	17 #/ft
Grade	N-80
Coupling	LT&C

Burst Design

An internal pressure gradient of 0.4863 psi/ft has been used as a basis for these calculations.

Burst rating of casing string:	7,740 psi	
Burst rating required:	3,669' X 0.4863 =	1,784 psig
Safety factor =	7,740 psi / 1,784 psi =	<u>4.33</u>

Tension Design

1.6 Safety factor of top joint, neglecting buoyancy and without over pull.

Tensile rating of casing joint:	348,000 lbf	
String Weight:	3,669' X 17 #/ft =	62,373 lbf
Safety factor =	348,000 lbf / 62,373 lbf =	<u>5.58</u>

Collapse Design

Maximum anticipated mud weight is 10.0 ppg based on a mud gradient of 0.53 psi/ft.

Collapse rating of csg string:	6,280 psi	
Collapse rating required:	3,669' X 0.53 psi/ft =	1,945 psi
Safety factor =	6,280 psi / 1,945 psi =	<u>3.23</u>

Production Casing Design

Interval (ft)	Weight (#/ft)	Grade	S.F. Burst	S.F. Collapse	S.F. Tension
3,669' – 0'	17	N-80	4.33	5.58	3.23

MULTI-POINT SURFACE USE PLAN

Attached to UDOGM Form 3

GORDON CREEK, LLC.

NE-7-14-8

2080.53' FNL & 542.53' FEL

SE/4 of NE/4 of Section 7-14S-8E

Carbon County, Utah

1. EXISTING ROADS

- a. We do not plan to change, alter or improve upon ANY existing State or County roads.
- b. Existing roads will be maintained in the same or better condition.

2. PLANNED ACCESS

- a. No new access is required, as this well was previously permitted and the access and location were built in accordance with that permit. The current route will be re-conditioned to ensure adequate access.
- b. If the well is productive, the road will be maintained as necessary to prevent soil erosion and maintain year-round traffic. However, we may allow the access road to be gated and closed off during winter production operations and access the site with a snowmobile or other winter ATV.
- c. Maximum Width: 24' travel surface with 27' base.
- d. Maximum grade: 25%
- e. Road culverts may be required. Surface water will be diverted around the well pad as necessary.
- f. Any power lines and / or pipelines to/from the well will follow the proposed access route.

3. LOCATION OF EXISTING WELLS

- a. As shown on the Civil Location Survey Plat for the well.

4. LOCATION OF EXISTING and/or PROPOSED FACILITIES

- a. If the well is a producer, installation of required production facilities will follow the drilling and completion phase of well operations. Buried flow lines, water lines and electrical cable will follow the proposed access road and other existing access ROWs to the intersection with Thunderbird's main 12' pipeline corridor.
- b. Rehabilitation of all pad areas not used for production facilities will be made in accordance with landowner stipulations.

5. LOCATION AND TYPE OF WATER SUPPLY

- a. All water to be used for drilling operations will be obtained from area water wells drilled and owned by Gordon Creek, LLC.
- b. Water will be transported to location by truck over approved access roads.

6. SOURCE OF CONSTRUCTION MATERIALS

- a. Any necessary construction materials needed will be obtained locally from a private source and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal / Indian lands.

7. METHODS FOR HANDLING WASTE DISPOSAL

- a. As the well is expected to be air drilled, a small reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit. The pit will not be lined unless conditions encountered during construction warrant it or if deemed necessary by the DOGM Representative during pre-site inspection. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operations cease with four strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit backfilled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or location.
- c. In the event that wellbore fluids are produced, any oil will be retained in tanks until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.
- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

8. ANCILLARY FACILITIES

- a. We anticipate no need for ancillary facilities with the exception of a trailer to be located on the drill site.

9. WELLSITE LAYOUT

- a. Gordon Creek, LLC. has reduced to surface lease size (area stripped and levelled) for this location to the smallest lease size possible to accommodate the required drilling rig and support equipment.
- b. Any available topsoil will be removed from the location and stockpiled. The location of the rig, mud tanks, reserve and berm pits and all other drilling support equipment will be located as per common oilfield rig layouts.
- b. A blooie pit will be located 100' from the drill hole. A line will be placed on the surface from the center hole to the blooie pit. The blooie pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.
- c. Access to the well pad will be as shown on the Civil Location Survey Plat for the well.
- d. Natural runoff will be diverted around the well pad.

10. PLANS FOR RESTORATION OF SURFACE

- a. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to minimize possible erosion.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.
- d. Rehabilitation will commence following completion of the well. Rat and mouse holes will be filled in immediately upon release of the drilling rig from the location. If the well site is to be abandoned, all disturbed areas will be re-contoured to the natural terrain found prior to location construction.

11. SURFACE OWNERSHIP

- a. The well site and access road are on and across lands originally owned through the State of Utah School and Institutional Trust Lands Administration and covered by Surface Use Agreement # ML-46537. ***Under this Surface Use Agreement AND the original APD Approval, this well location and access road were constructed and remain in a rig-ready state.*** Since the expiration of the original APD for this well, ownership of these lands have since been transferred to the State of Utah Department of Natural Resources, Division of Wildlife Resources, 1594 W. North Temple, Suite 2110, P.O. Box 146301, Salt Lake City, Utah, 84114-6301. The operator shall contact the landowner and the Division of Oil, Gas and Mining 48 hours prior to beginning construction activities.

12. OTHER INFORMATION

- a. The primary surface use is wildlife habitat. The nearest dwelling is approximately 12 Miles east (Price, Utah). The nearest live water is an unnamed natural spring located approximately ½ Mile East of the proposed well location.
- b. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed and piled downhill from the topsoil stockpile location.
- c. The back-slope and fore-slope will be constructed no steeper than 4:1.
- d. All equipment and vehicles will be confined to the access road and well pad.
- e. A complete copy of the approved Application for Permit to Drill (APD,) including all conditions and stipulations shall be on the well-site during construction and drilling operations.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the Division of Oil, Gas & Mining.

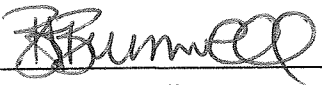
13. COMPANY REPRESENTATIVE

Barry Brumwell, C.E.T.
Vice President, Operations
Gordon Creek LLC., a wholly owned subsidiary of
Thunderbird Energy Corp.
#550, 1010 – 1st Street S.W.
Calgary, Alberta, Canada
(403) 453-1608 (office)
(403) 818-0696 (mobile)
bbrumwell@thunderbirdenergy.com

14. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Gordon Creek, LLC. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

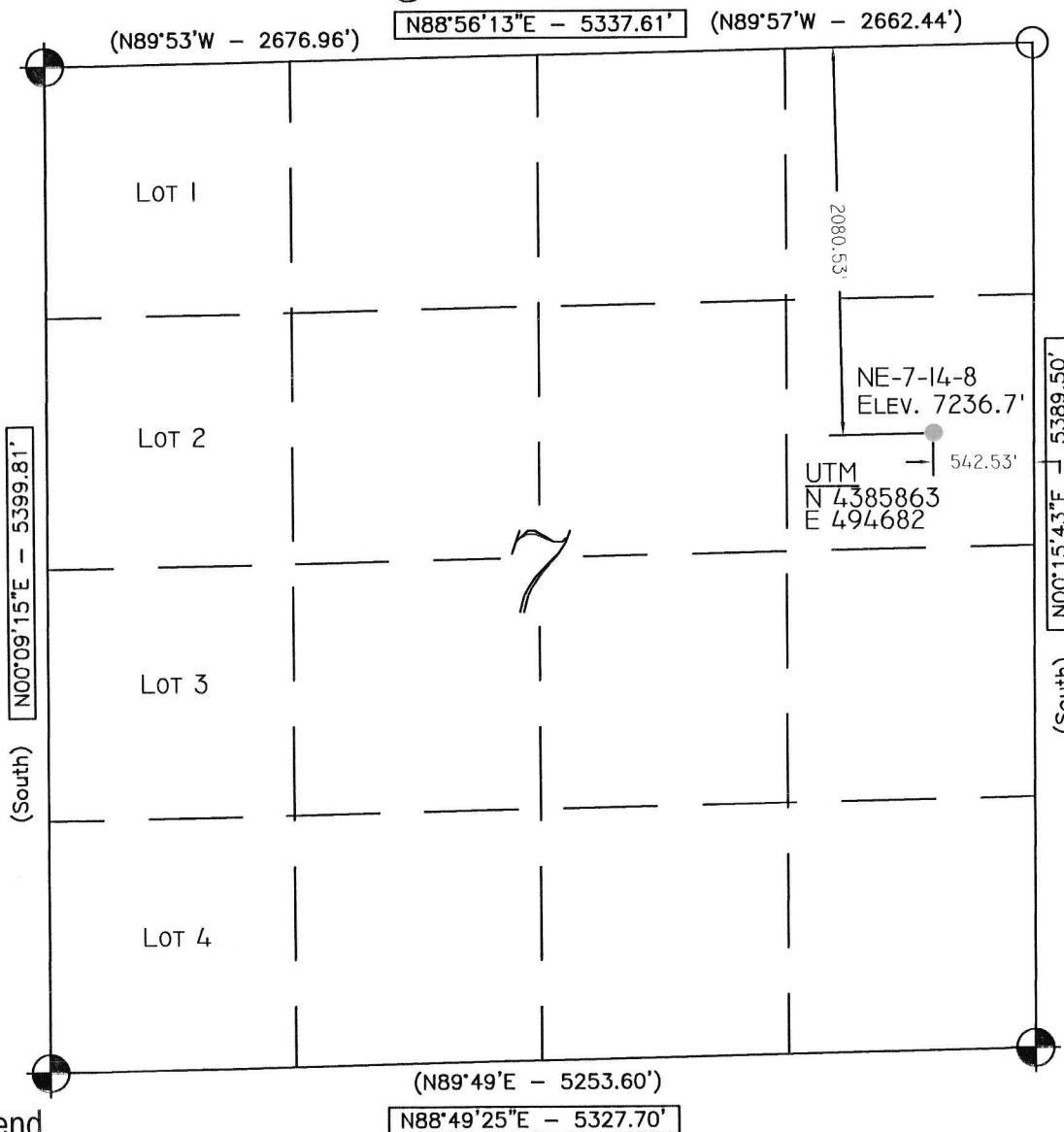
9/19/2014
DATE



Barry Brumwell, C.E.T.
Vice President, Operations
Gordon Creek LLC. / Thunderbird Energy Inc.

Range 8 East

Township 14 South



Legend

- Drill Hole Location
- ⊕ Brass Cap (Found)
- Stone (Found)
- △ Calculated Corner
- () GLO
- GPS Measured

NOTES:

1. Dimensions are GPS measured unless noted otherwise.
2. UTM and Latitude / Longitude Coordinates are derived using a GPS Pathfinder and are shown in NAD 27 Datum.

LAT / LONG
39°37'27.834" N
111°03'43.061" W

Location:

The well location was determined using a Trimble 5700 GPS survey grade unit.

Basis of Bearing:

The Basis of Bearing is GPS Measured.

GLO Bearing:

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office.

Basis of Elevation:

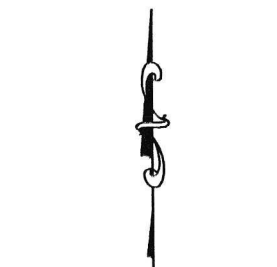
Basis of Elevation of 7400.00' being at the Northeast Section Corner of Section 6, Township 14 South, Range 8 East, Salt Lake Base and Meridian, as shown on the Jump Creek Quadrangle 7.5 minute series map.

Description of Location:

Proposed Drill Hole located in the SE/4 NE/4 of Section 7, T14S, R8E, S.L.B.&M., being South 2080.53' from North Line and West 542.53' from East Line of Section 7, T14S, R8E, Salt Lake Base and Meridian.

Surveyor's Certificate:

I, John S. Huefner, a Professional Land Surveyor, holding Certificate No. 144842 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



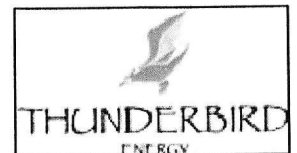
GRAPHIC SCALE

0 500' 1000'
(IN FEET)
1 inch = 1000ft



TALON RESOURCES, INC.

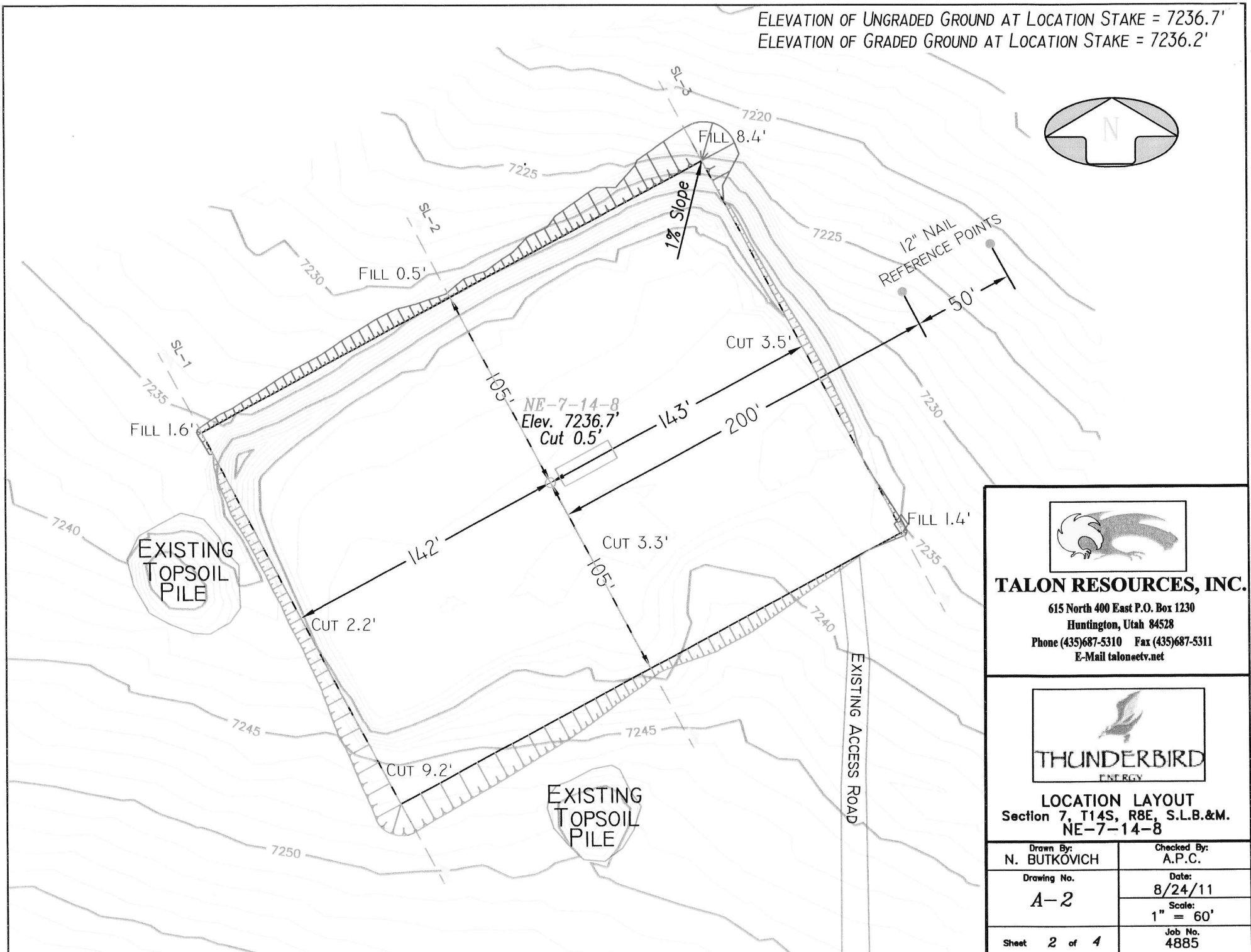
615 North 400 East P.O. Box 1230
Huntington, Utah 84528
Phone (435)687-5310 Fax (435)687-5311
E-Mail talonsetv.net



NE-7-14-8
Section 7, T14S, R8E, S.L.B.&M.
Carbon County, Utah

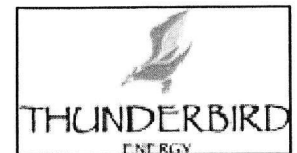
Drawn By: N. BUTKOVICH	Checked By: A.P.C./J.S.H.
Drawing No. A-1	Date: 8/24/11
	Scale: 1" = 1000'
Sheet 1 of 4	Job No. 4885

ELEVATION OF UNGRADED GROUND AT LOCATION STAKE = 7236.7'
 ELEVATION OF GRADED GROUND AT LOCATION STAKE = 7236.2'



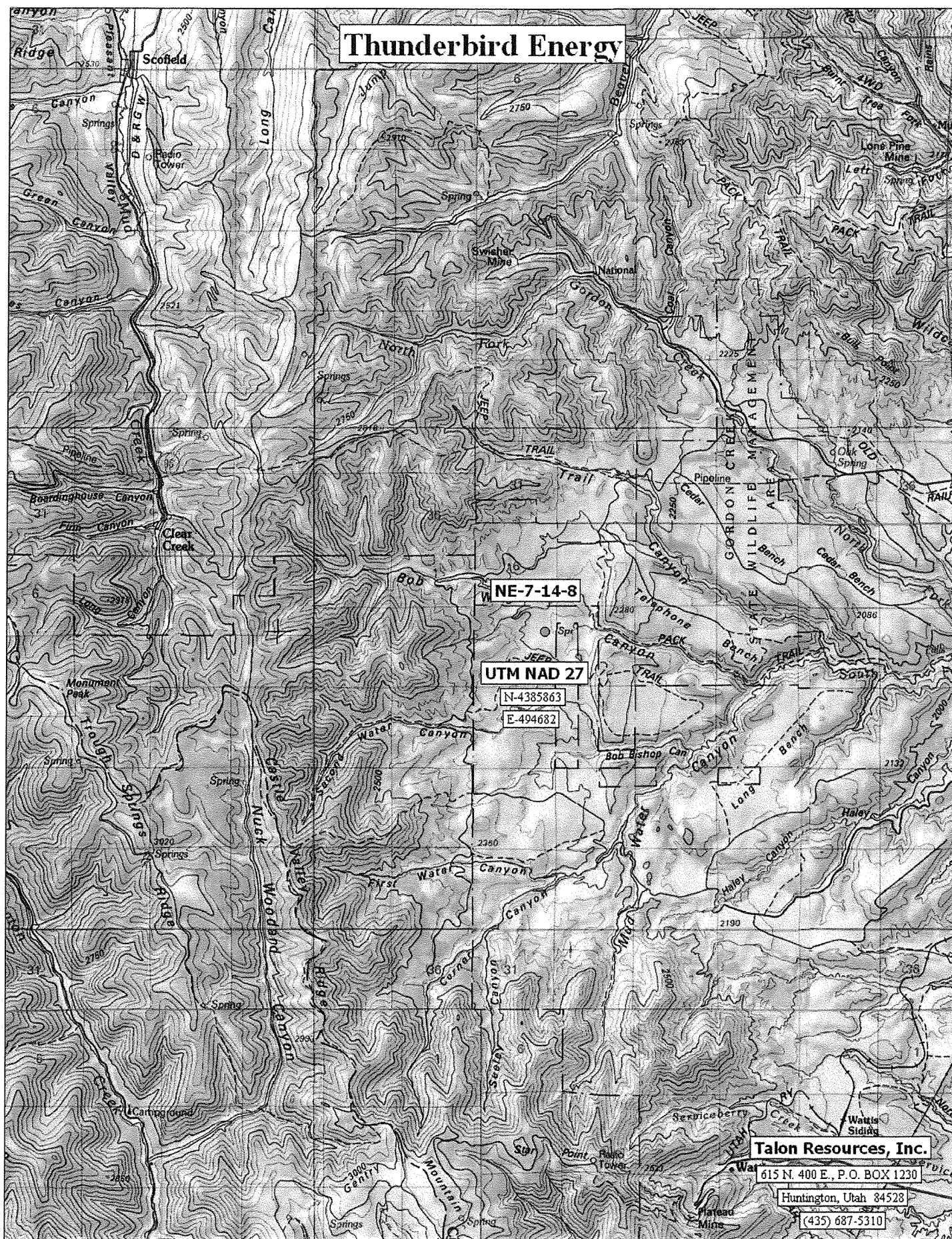
TALON RESOURCES, INC.

615 North 400 East P.O. Box 1230
 Huntington, Utah 84528
 Phone (435)687-5310 Fax (435)687-5311
 E-Mail talonectv.net



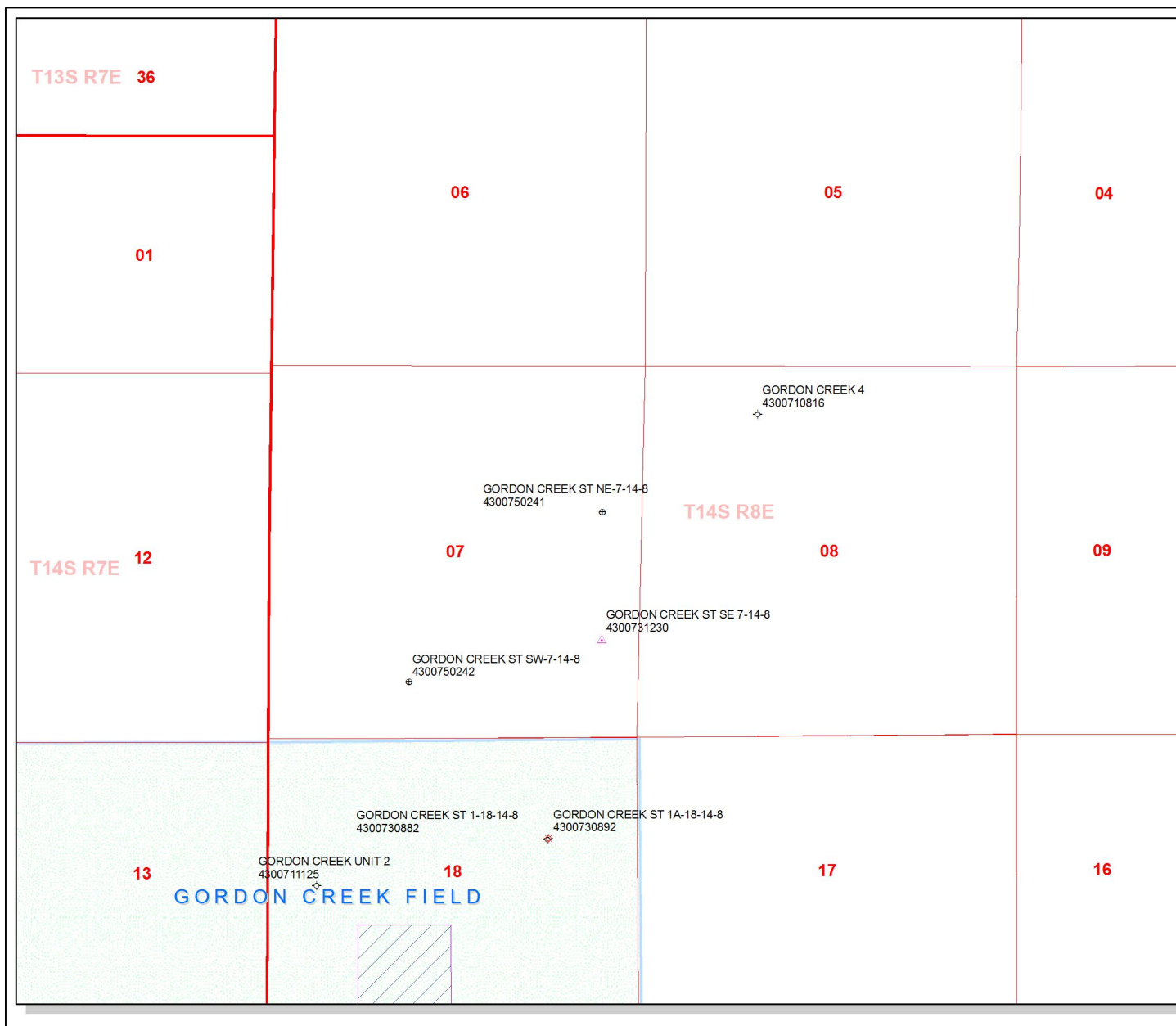
LOCATION LAYOUT
 Section 7, T14S, R8E, S.L.B.&M.
 NE-7-14-8

Drawn By: N. BUTKOVICH	Checked By: A.P.C.
Drawing No. A-2	Date: 8/24/11
	Scale: 1" = 60'
Sheet 2 of 4	Job No. 4885



TN * MN
12 1/2°

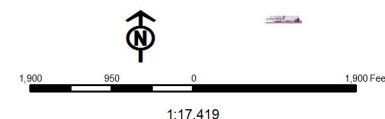
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles
0 1 2 3 4 5 km



API Number: 4300750241
Well Name: GORDON CREEK ST NE-7-14-8
Township T14 . Range R0.8 . Section 07
Meridian: SLBM
Operator: GORDON CREEK, LLC

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	STATUS
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERML	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Fields	Fields
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WIW - Water Injection Well
TERMINATED	WSW - Water Supply Well



BOPE REVIEW GORDON CREEK, LLC GORDON CREEK ST NE-7-14-8 43007502410000

Well Name	GORDON CREEK, LLC GORDON CREEK ST NE-7-14-8 4300			
String	Surf	PROD		
Casing Size(in)	8.625	5.500		
Setting Depth (TVD)	450	3669		
Previous Shoe Setting Depth (TVD)	0	450		
Max Mud Weight (ppg)	8.7	10.0		
BOPE Proposed (psi)	500	3000		
Casing Internal Yield (psi)	2950	7740		
Operators Max Anticipated Pressure (psi)	1700	8.9		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	204	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	150	YES air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	105	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	105	NO OK
Required Casing/BOPE Test Pressure=		450	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	1908	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1468	YES air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1101	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1200	NO Reasonable
Required Casing/BOPE Test Pressure=		3000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		450	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi

API Well Number: 43007502410000

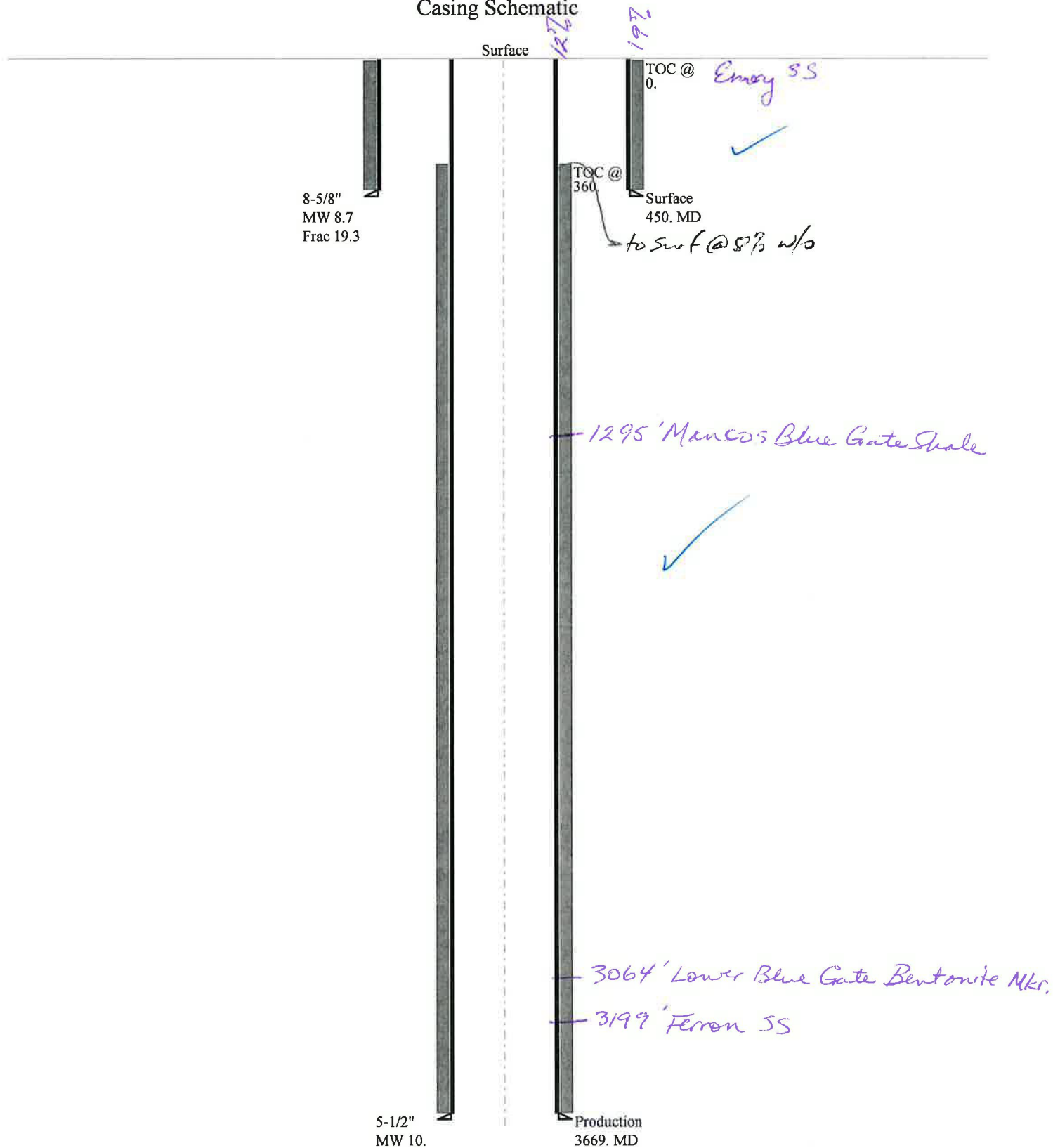
*Max Pressure Allowed @ Previous Casing Shoe=

psi *Assumes 1psi/ft frac gradient

RECEIVED: October 17, 2011

43007502410000 GORDON CREEK ST NE-7-14-8

Casing Schematic



Well name:	43007502410000 GORDON CREEK ST NE-7-14-8	
Operator:	GORDON CREEK, LLC	
String type:	Surface	Project ID: 43-007-50241
Location:	CARBON	COUNTY

Design parameters:**Collapse**

Mud weight: 8.700 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 80 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 450 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 1,466 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,520 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 391 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 3,669 ft
Next mud weight: 10.000 ppg
Next setting BHP: 1,906 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 3,669 ft
Injection pressure: 3,669 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	450	8.625	24.00	J-55	ST&C	450	450	7.972	2317
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	203	1370	6.736	1520	2950	1.94	10.8	244	22.59 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: October 5, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 450 ft, a mud weight of 8.7 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43007502410000 GORDON CREEK ST NE-7-14-8	
Operator:	GORDON CREEK, LLC	
String type:	Production	Project ID: 43-007-50241
Location:	CARBON	COUNTY

Design parameters:**Collapse**

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 125 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 360 ft

Burst

Max anticipated surface pressure: 1,099 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 1,906 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Non-directional string.

Tension is based on air weight.
Neutral point: 3,113 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3669	5.5	17.00	N-80	LT&C	3669	3669	4.767	20680
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1906	6290	3.300	1906	7740	4.06	62.4	348	5.58 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: October 5, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 3669 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator GORDON CREEK, LLC
Well Name GORDON CREEK ST NE-7-14-8
API Number 43007502410000 **APD No** 4661 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 SENE **Sec 7 Tw** 14.0S **Rng** 8.0E 2081 FNL 543 FEL
GPS Coord (UTM) **Surface Owner** State of Utah Division of Wildlife Resources

Participants

M. Jones (UDOGM), Barry Brumwell, Steve Lessar (Tbird), A. Childs, E. Bonner (SITLA), N. Nielson (DWR).

Regional/Local Setting & Topography

This proposed new wellbore is planned on previously disturbed surface. The site is in the upper Gordon Creek area of Carbon County, Utah. Topography changes dramatically in the area. The exact location of the well pad is sloped to the north. A well pad was originally permitted at this site and has had the permitted recinded due to inactivity. The surface has since changed ownership from SITLA to DWR. This posses issues to surface use agreements. Thunderbird and DWR are currently in negotiations in regards to surface use agreements. An ammendment to the surface use agreement that SITLA had is being drafted and hoped to have signitures in place by the end of this week to the first of next week. Both parties are in cooperation at this point. The pad is constructed and there are no plans to disturb the surface beyond the existing disturbances. Pits were reclaimed awhile back and at this point a central pit for multiple wells is planned at a different location from this pad. The cuttings will be contained on this location inside portable metal tanks. The cuttings will be trucked from the tanks to the central pit for more permanent storage and disposal. Drainages should be diverted and maintained. Berms should be maintained to contain spills on location.

Surface Use Plan

Current Surface Use

Wildlfe Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 210 Length 285	Onsite	

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

existing pad. Surrounding area is dominated by sagebrush, grasses, and buckbrush.

Soil Type and Characteristics

clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? Y

Divert drainages around and away from well pad and access road.

Berm Required? Y

berm location to prevent spills from leaving location.

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score	25	1 Sensitivity Level

Characteristics / Requirements

Plans to use metal flat tanks for cuttings. No earthen pit planned at this point outside of a small blooie pit.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** N

Other Observations / Comments

Mark Jones
Evaluator

10/17/2011
Date / Time

Application for Permit to Drill Statement of Basis

10/25/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4661	43007502410000	LOCKED	GW	S	No
Operator	GORDON CREEK, LLC		Surface Owner-APD	State of Utah Division of Wildlife Resources	
Well Name	GORDON CREEK ST NE-7-14-8		Unit		
Field	UNDESIGNATED		Type of Work	DRILL	
Location	SENE 7 14S 8E S 2081 FNL 543 FEL GPS Coord (UTM) 494665E 4385841N				

Geologic Statement of Basis

Tunderbird Energy proposes to drill the well to a total depth of 3,669' and plans to set surface casing from 0'-450'. The surface string will be drilled using air unless hole conditions require the need to "mud up" with water and gel chem. Within a 10,000 foot radius of the center of section 7, there are 71 filed water rights, however, only one is a subsurface groundwater right. Gordon Creek, LLC, has applied for a 4 acre/foot well for oil & gas field operations. This location is within a small north-south trending graben valley. The poorly permeable silty soil has been formed from the erosion of the Upper Blue Gate Member of the Mancos Shale. Several units of the Emery Sandstone Member of the Mancos Shale are present at the near surface or within the subsurface, these strata should be included within the interval to be protected by the surface casing string. The operator should be informed of the likelihood of these units being water saturated and to respond to protecting these zones by extending the surface casing as necessary. Proposed surface casing and cement should adequately isolate any shallow zones containing water.

Ammon McDonald
APD Evaluator

10/13/2011
Date / Time

Surface Statement of Basis

This proposed new wellbore is planned on previously disturbed surface. The site is in the upper Gordon Creek area of Carbon County, Utah. Topography changes dramatically in the area. The exact location of the well pad is sloped to the north. A well pad was originally permitted at this site and has had the permitted recinded due to inactivity. The surface has since changed ownership from SITLA to DWR. This poses issues to surface use agreements. Thunderbird and DWR are currently in negotiations in regards to surface use agreements. An ammendment to the surface use agreement that SITLA had is being drafted and hoped to have signitures in place by the end of this week to the first of next week. Both parties are in cooperation at this point. The pad is constructed and there are no plans to disturb the surface beyond the existing disturbances. Pits were reclaimed awhile back and at this point a central pit for multiple wells is planned at a different location from this pad. The cuttings will be contained on this location inside portable metal tanks. The cuttings will be trucked from the tanks to the central pit for more permanent storage and disposal. Drainages should be diverted and maintained. Berms should be maintained to contain spills on location.

Mark Jones
Onsite Evaluator

10/17/2011
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Surface	Operations should be contained to existing access and existing well pad. Activities beyond these boundaries are not permitted.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

RECEIVED: October 25, 2011

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/19/2011**API NO. ASSIGNED:** 43007502410000**WELL NAME:** GORDON CREEK ST NE-7-14-8**OPERATOR:** GORDON CREEK, LLC (N3245)**PHONE NUMBER:** 403 453-1608**CONTACT:** Barry Brumwell**PROPOSED LOCATION:** SENE 07 140S 080E**Permit Tech Review:** ☒**SURFACE:** 2081 FNL 0543 FEL**Engineering Review:** ☒**BOTTOM:** 2081 FNL 0543 FEL**Geology Review:** ☒**COUNTY:** CARBON**LATITUDE:** 39.62420**LONGITUDE:** -111.06216**UTM SURF EASTINGS:** 494665.00**NORTHINGS:** 4385841.00**FIELD NAME:** UNDESIGNATED**LEASE TYPE:** 3 - State**LEASE NUMBER:** 46537**PROPOSED PRODUCING FORMATION(S):** FERRON SANDSTONE**SURFACE OWNER:** 3 - State**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

- ☒ **PLAT**
- ☒ **Bond:** STATE - RLB0010790
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** 91-5193
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingle Approved**LOCATION AND SITING:**

- ☐ **R649-2-3.**
- Unit:**
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 248-01
- Effective Date:** 5/16/2002
- Siting:** 460' Fr Outer Bdry & 920' Fr Other Wells
- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed
SURF OWNER DWR:**Stipulations:** 5 - Statement of Basis - bhill**RECEIVED: October 25, 2011**



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: GORDON CREEK ST NE-7-14-8

API Well Number: 43007502410000

Lease Number: 46537

Surface Owner: STATE

Approval Date: 10/25/2011

Issued to:

GORDON CREEK, LLC, 1179 E Main #345, Price, UT 84501

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 248-01. The expected producing formation or pool is the FERRON SANDSTONE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read 'John Rogers', is written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; GORDON CREEK, LLC

Well Name: GORDON CREEK ST NE 7-14-8

Api No: 43-007-50241 Lease Type STATE

Section 07 Township 14S Range 08E County CARBON

Drilling Contractor TRIPLE A DRILLING RIG #

SPUDDED:

Date 01/12/2012

Time 9:30 AM

How DRY

Drilling will

Commence:

Reported by BOZE STINSON

Telephone # (435) 630-6394

Date 01/12 /2012 Signed CHD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46537
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: GORDON CREEK, LLC		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1179 E Main #345, Price, UT, 84501		8. WELL NAME and NUMBER: GORDON CREEK ST NE-7-14-8
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2081 FNL 0543 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 07 Township: 14.0S Range: 08.0E Meridian: S		9. API NUMBER: 43007502410000
PHONE NUMBER: 403 453-1608 Ext		9. FIELD and POOL or WILDCAT: UNDESIGNATED
COUNTY: CARBON		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/30/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>This APD has expired and we still wish to drill this well. We are therefore requesting a 1-year extension to the APD.</p> </div> <div style="width: 35%; text-align: right;"> <p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: December 18, 2012</p> <p>By: </p> </div> </div>		
NAME (PLEASE PRINT) Barry Brumwell		PHONE NUMBER 403 453-1608
SIGNATURE N/A		TITLE Vice President-Operations
DATE 12/13/2012		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43007502410000

API: 43007502410000

Well Name: GORDON CREEK ST NE-7-14-8

Location: 2081 FNL 0543 FEL QTR SENE SEC 07 TWNP 140S RNG 080E MER S

Company Permit Issued to: GORDON CREEK, LLC

Date Original Permit Issued: 10/25/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☒ Yes ☐ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Barry Brumwell

Date: 12/13/2012

Title: Vice President-Operations Representing: GORDON CREEK, LLC



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 8, 2014

Gordon Creek, LLC
1179 E Main #345
Price, UT 84501

Re: APD Rescinded – Gordon Creek ST NE-7-14-8, Sec. 7 T.14S, R.8E,
Carbon County, Utah API No. 43-007-50241


Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on October 25, 2011. On December 18, 2012, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 8, 2014.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
SITLA, Ed Bonner

